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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/062,681	01/31/2002	Jennifer Geske	10007033-1	2182

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HEWLETT-PACKARD COMPANY  
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EXAMINER

CARBONELLO, MICHAEL J

ART UNIT PAPER NUMBER

2622

DATE MAILED: 12/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>		<b>Applicant(s)</b>	
	10/062,681		GESKE ET AL.	
	<b>Examiner</b>		<b>Art Unit</b>	
	Michael J. Carbonello		2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 31 January 2002.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-35 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 is/are allowed.
- 6) ☒ Claim(s) 1-20, and 22-33 is/are rejected.
- 7) ☒ Claim(s) 21, 34, 35 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date: _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date: _____  | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Specification***

1. The specifications were received on 01/31/2002. The examiner accepts these specifications.

### ***Drawings***

2. The drawings were received on 01/31/2002. The examiner accepts these drawings.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1- 20, and 22-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Barrett et al.
4. Regarding claim 1, Barrett et al discloses in column 14, lines 29-49; "A method for electronically monitoring the contents of a print job generated from print data comprising, analyzing the print data to build statistical information about content within the print data, and categorizing the print job using the statistical information according to pre-specified categorization criteria." Using the broadest reasonable interpretation the status and control information, which are described as monitoring features, would be pre-specified categorization criteria.

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5. With respect to claim 2, Barrett et al discloses the methods and devices discussed above and further discloses in column 8, lines 42-46; "wherein the analyzing the print data to build statistical information is incorporated in a printer driver." Using the broadest reasonable interpretation the emulator's examination of the received data, and the subsequent Job Pipe Driver would be a method whereby analyzing print data is incorporated in a printer driver.

6. With respect to claim 3, Barrett et al discloses the methods and devices discussed above and further discloses in column 8, lines 51-53: "wherein at least a portion of the printer driver is a software printer driver." Using the broadest reasonable interpretation the pipe driver segment, which is described, as "the application for the emulator" would be "a portion of the driver is a software printer driver."

7. With respect to claim 4, Barrett et al discloses the methods and devices discussed above and further discloses in column 10, lines 61-63; "wherein at least a portion of the printer driver is a firmware printer driver." Using the broadest reasonable interpretation the "control firmware and printing application software" would be at least a portion of the printer driver being a firmware printer driver.

8. Regarding claims 5 and 29, Barrett et al discloses the methods and devices discussed above and further discloses in column 7, lines 4-7; "further comprising storing the classification in a log file." Using the broadest reasonable interpretation writing to a log file would be storing the data in a log file.

9. Regarding claim 6, Barrett et al discloses the methods and devices discussed above and further discloses in column 14, lines 50-68 continuing through column 15, lines 1-9; "further comprising using the categorization information from the log file for examination, building, enhancing and verifying future categorization matches." Using the broadest reasonable interpretation, keeping statistical log information, and using that information for better management across the network would be a method of utilizing the log file information for verifying futures matches.
10. Regarding claims 7 and 31, Barrett et al discloses the methods and devices discussed above and further discloses in column 14, lines 50-68 continuing through column 15, lines 1-9; "further comprising gathering input criteria from a user before a print job is initiated and categorizing the print job based on the statistical analysis and the input criteria." Using the broadest reasonable interpretation the statistical log used to better manage the print service is functionally equivalent in that it attempts maximize performance of each print job by keeping statistical information about print activity.
11. Regarding claim 8, Barrett et al discloses the methods and devices discussed above and further discloses in column 14, line 54, and also again column 14 lines 66-67; "classifying the print job as an unknown job type if the categorizing is unsuccessful." Using the broadest reasonable interpretation the error code and error condition entry information could be viewed as classifying as unknown if categorization is unsuccessful.

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12. Regarding claim 9, Barrett et al discloses the methods and devices discussed above and further discloses in column 14, lines 50-68 continuing through column 15, lines 1-9; "wherein the categorizing at least one print job category associated with the print job, further comprising, performing an action based on the at least one print job category." Using the broadest reasonable interpretation the enhancement of print service management across the network would be performing an action based on at least one print job category.

13. Regarding claim 10, Barrett et al discloses the methods and devices discussed above and further discloses in column 15, lines 9-11; "wherein the action is selected from a group consisting of alerting an administrator, providing control to the administrator, printing the print job, and inhibiting printing of the print job." Using the broadest reasonable interpretation, allowing the network administrator's PC [14] to control and maintain the printer from a remote location would be providing control to the administrator.

14. Regarding claim 11, Barrett et al discloses the methods and devices discussed above and further discloses in column 14, line 66-67; "wherein at least one print category is an unknown print job type." Using the broadest reasonable interpretation the error condition entry information would be an unknown print job type.

15. Regarding claim 12, Barrett et al discloses the methods and devices discussed above and further discloses in column 14, lines 50-68 continuing through column 15, lines 1-9; "processing the log file so as to determine effectiveness of the categorizing, and updating the pre-specified categorization

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criteria so as to improve the effectiveness of the categorizing." Using the broadest reasonable interpretation the CPCONSOL, which enables access the features that allow enhanced print service management, would be a method whereby the gathered log file data used to improve the effectiveness of categorization.

16. Regarding claim 13, Barrett et al discloses the methods and devices discussed above and further discloses in column 39, lines 38-40; "further including developing at least one new categorization category." Using the broadest reasonable interpretation the NEB creating a new log file for every print job could be viewed as at least one new categorization category.

17. Regarding claim 14, Barrett et al discloses the methods and devices discussed above and further discloses in column 14 lines 37-68 continuing through column 15, lines 1-9; "processing the log file so as to characterize printing usage." The statistical log information and the enhanced print service management would be processing the log file to characterize printing usage.

18. Regarding claim 15, Barrett et al discloses the methods and devices discussed above and further discloses in column 14 lines 37-68 continuing through column 15, lines 1-11; "wherein analyzing the print data includes sorting page content by drawing commands, grouping drawing command collections into pre-determined object types, and differentiating between a first drawing style and a second drawing style." Using the broadest reasonable interpretation the various statistical options like printer groups, print job flow print engine usage could be

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viewed as drawing styles, and any combination of said options would be viewed as two different styles.

19. Regarding claim 16, Barrett et al discloses the methods and devices discussed above and further discloses in column 14, lines 37-68 continuing through column 15, lines 1-2; "wherein analyzing and categorizing are performed before the print job is printed." While some of the statistical information, like number of jobs or pages per minute, would be stored after a print job has completed; using the broadest reasonable much of job entry information such as time, date, time zone, login (user's name) job name, copy count, print status, error reports etc, could be logged and analyzed before the print job is printed.

20. Regarding claims 17, 27, and 33 Barrett et al discloses the methods and devices discussed above and further discloses in column 2, lines 3-15, and also in column 8, lines 51-56; "a statistical module that collects drawing commands and collapses the collected drawing commands into pre-determined classifications, and a filtering module coupled to the statistical module that filters the pre-determined classifications using pre specified category criteria and categorizes the print job into at least one predefined print job category." Using the broadest reasonable interpretation the interactive board, which is used to gather status information, would be a module that collects drawing commands and groups them into pre-determined classifications. Further, the Job Pipe subsystem with its input and out put pipe segments and its filters would be a method whereby a module filters predetermined classifications.



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21. With respect to claim 27, classifying the print jobs would be the same as filtering the print jobs.

22. Regarding claim 18, Barrett et al discloses the methods and devices discussed above and disclosed in column 8, lines 51-56; "comprising a secondary filter module that uses the pre-determined classifications and input criteria predefined by a user and relating to the printing operation for categorizing the print job." Using the broadest reasonable interpretation if the source filter is considered the primary filter the output filter would then be viewed as the secondary filter.

23. Regarding claim 19, Barrett et al discloses the methods and devices discussed above and further discloses in column 8, lines 65-68; "wherein the drawings commands include at least one of vector graphics, raster graphics or textual fonts and are predefined by an administrator." Converting the page information to a raster image would be wherein one of the commands in a raster graphic.

24. With respect to claim 20, Barrett et al discloses the methods and devices discussed above and further discloses in column 8, lines 42-46; "wherein the statistical module is incorporated in a software printer driver." The Job Pipe driver is part of the subsection system architecture, using the broadest reasonable interpretation the Job Pipe driver would be a software driver.

25. With respect to claim 22, Barrett et al discloses the methods and devices discussed above and further discloses in column 24, lines 37-40; "wherein the client monitoring program is preprogrammed to send an error message to a user

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attempting to initiate the print job blocking all print jobs that are classified with unknown designations." Using the broadest reasonable interpretation the LED signal to a user, that an error has been detected could be from a user attempting to initiate a print job blocking all print jobs with unknown designations.

26. With respect to claim 23, Barrett et al discloses the methods and devices discussed above and further discloses in column 14, lines 37-68 continuing through column 15, lines 1-11; "statistically analyzing the print data to form object type percentages using drawing command information, classifying the print job using the statistical analysis and according to pre-specified categorization criteria, and storing the classification in a log file and using the classification from the log file for examination and for building, enhancing and verifying future classification matches."

27. With respect to claim 24, Barrett et al discloses the methods and devices discussed above and further discloses column 7, lines 16-28; "further comprising gathering input criteria from a user before a print job is initiated and classifying the print job based on the statistical analysis and the input criteria." Using the broadest reasonable interpretation the CPINIT program allow a user to printer applications as well as log information.

28. With respect to claim 25 and 32, Barrett et al discloses the methods and devices discussed above and further discloses in column 21, lines 15-18, and column 23, lines 37-44; ""further comprising monitoring all print jobs and providing at least one of an automatic rejection, acceptance or confirmation of the print job as user feedback before the print job is sent to peripheral device."

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Using the broadest reasonable interpretation, figure 5c, and the firmware disclosed is a method of monitoring the print documents, further hat firmware needs to confirm that the image has been transferred properly, and lastly the communication program channels information to the printing peripheral.

With respect to claim 32, using the broadest reasonable interpretation the confirmation of the print job would be the same as approving the print job an allowing it to be printed.

29. With respect to claim 28, Barrett et al discloses the methods and devices discussed above and further discloses in column, 16 lines, 32-36, "an application program that generates print data for a print job; a printer that receives the print data for printing the print jobs; a software printer driver coupled to the printer and application program for analyzing the print data to build statistical information about content within the print data; and a filter module coupled to the software printer driver for categorizing the print job using the statistical information according to pre-specified categorization criteria." Using the broadest reasonable interpretation the print job data being sent of the SCSI interface would be an application that generates print jobs. Further the various components such as the drivers, analytical techniques and statistical information, and categorization have already been disclosed above.

30. With respect to claim 30, Barrett et al discloses the methods and devices discussed above and further discloses in column 14, lines 27-49; "wherein the categorization information from the log file is used for examination, building, enhancing and verifying future categorization matches."

***Allowable Subject Matter***

Claims 21,34 and 35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

31. Regarding claim 21, Barrett et al does not disclose the use of a client-monitoring program that determines if a new category is needs to be developed.

32. Regarding claim 34, Barrett et al does not disclose the method of counting arc, rectangle, and brush patterns.

33. Regarding claim 35, Barrett et al does not disclose the use of predetermined categories at least one of solid or unfilled circle line/graphics, clip and style images, and photographic images.

***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

34. Russell discloses, "Method and apparatus for storing a Media Access Control (MAC) address in an EPROM disposed on a target interactive network board having a local area network interface comprises the step of activating a LAN communication program. The communication program operates to broadcast an inquiry through the LAN for the target interactive network board, to receive location information of the target interactive network board in response to the broadcast inquiry, and to establish communication with the target interactive

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network board. The MAC address is downloaded to a RAM on the board, verified therein, and loaded into the EPROM from the RAM.

35. Kalwitz et al discloses; "Method and apparatus for altering an executable file stored in a random access memory on a designated interactive network having a local area network interface comprises activating a LAN communication program. The communication program operates to broadcast an inquiry through the local area network for the designated interactive network board, to receive location information of the designated interactive network board in response to the broadcast inquiry, and to establish communication with the designated interactive network board. The executable file is downloaded into RAM on the designated interactive network board through the local area network interface. A verifying step verifies a checksum value of the executable file against a checksum value in a checksum packet attached to the executable file. In the case that the verifying step is successfully completed, execution of the executable file may be commanded remotely, e.g., across the LAN interface."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Carbonello whose telephone number is (571) 272-0625. The examiner can normally be reached on Monday - Friday 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on (571) 272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Examiner  
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MJC

JOSEPH R. POKRZYWA  
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